NC/QC/PD/MW-01/2017-18/YP-C1

Date: 03-11-2017

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**153 min**	Shall not be less than 30 min
2	Final setting time	**264 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.94 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**3.15 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.10 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/PD/MW-01/2017-18/YP-PCC1 Date: 03-11-2017

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**97.90**	85-100	95 – 100
20mm	**65.80**	0 -20	30- 70
10mm	**18.95**	0 -5	10- 35
4.75mm	**3.70**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	**98.55**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.60**	60-95	75-100	85-100	
01.18	**68.85**	30-70	55-90	75-100	
600. mic	**42.35**	15-34	35-59	60-79	
300.mic	**17.15**	5-20	8-30	12-40	
150.mic	**8.10**	0-10	0-10	0-10	

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NC/QC/PD/MW-01/2017-18/YP-SSM1 Date: 07-11-2017

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1385.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.46 %	Not more than 2.0 %

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Page No. 1/1,

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NC/QC/PD/MW-01/2017-18/YP-SSM2 Date: 09-11-2017

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1325.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.46 %**	Not more than 2.0 %

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NC/QC/PD/MW-01/2017-18/YP-SSM3

Date: 13-11-2017

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1410.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.43 %	Not more than 2.0 %

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NC/QC/PD/MW-01/2017-18/YP-C2

Date: 16-11-2017

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**252 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.45 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.65 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/PD/MW-01/2017-18/YP-FA1 **Date: 16-11-2017**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**87.15**	60-95	75-100	85-100	
01.18	**60.32**	30-70	55-90	75-100	
600. mic	**43.50**	15.34	35-59	60-79	
300.mic	**15.15**	5-20	8-30	12-40	
150.mic	**6.62**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.25 %**	-----
2	Silt Content	----	**0.98 %**	Not more than 8%
3	Specific Gravity	----	**2.63**	-------

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Page No. 1/1,

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NC/QC/PD/MW-01/2017-18/YP-CA1 **Date: 16-11-2017**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	93.40	85-100	90 - 100
10 mm	36.75	0 - 20	25 - 55
4.75 mm	4.50	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.35 %	Not to exceed 25 %
2.	Crushing value	27.50 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/PD/MW-01/2017-18/YP-S1 Date: 16-11-2017

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 12, 16 & 20 mm **TMT Steel.**
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 08 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.391**	0.363	**0.895**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**558.0**	500.0	**563.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**18.50**	12.00	**19.80**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**643.0**	545.0	**673.0**	545.0

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Date: 16-11-2017

TABLE – 1

SL No	Details	For 16 mm		For 20 mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**16.0 mm**	16.0 mm	**20.0mm**	20.0mm
02	Observed Wt/m Length **Kg/m**	**1.593**	1.483	**2.470**	2.366
03	Proof stress/Yield stress, fy , **N/mm^2**	**562.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.30**	12.00	**20.70**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**642.0**	545.0	**625.0**	545.0

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NC/QC/PD/MW-01/2017-18/YP-CB1 Date: 27-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-11-17	27-11-17	07	22500	460	20.44	**19.78**
	002	"	"	"	"	440	19.56	
	003	"	"	"	"	435	19.33	

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NC/QC/PD/MW-01/2017-18/YP-CB2 Date: 30-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-11-17	30-11-17	07	22500	425	18.89	**19.41**
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	440	19.56	

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NC/QC/PD/MW-01/2017-18/YP-CB3 **Date: 04-12-2017**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-11-17	04-12-17	07	22500	455	20.22	**19.85**
	002	"	"	"	"	435	19.33	
	003	"	"	"	"	450	20.00	

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Page No. 1/1,

For Newzen Consultants Bangalore

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NC/QC/PD/MW-01/2017-18/YP-CB4 Date: 07-12-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-11-17	07-12-17	07	22500	430	19.11	**19.41**
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	435	19.33	

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NC/QC/PD/MW-01/2017-18/YP-CB5 Date: 12-12-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-12-17	12-12-17	07	22500	450	20.00	19.56
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	445	19.78	

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NC/QC/PD/MW-01/2017-18/YP-CB1a

Date: 18-12-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
1	001	20-11-17	18-12-17	28	22500	595	26.44	**26.74**
	002	"	"	"	"	610	27.11	
	003	"	"	"	"	600	26.67	

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NC/QC/PD/MW-01/2017-18/YP-CB2a

Date: 21-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-11-17	21-11-17	28	22500	605	26.89	**27.11**
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	605	26.89	

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NC/QC/PD/MW-01/2017-18/YP-CB3a **Date: 26-12-2017**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-11-17	26-12-17	29	22500	615	27.33	**27.56**
	002	"	"	"	"	625	27.78	
	003	"	"	"	"	620	27.56	

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NC/QC/PD/MW-01/2017-18/YP-CB4a

Date: 28-12-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-11-17	28-12-17	28	22500	630	28.00	**27.48**
	002	"	"	"	"	610	27.11	
	003	"	"	"	"	615	27.33	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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NC/QC/PD/MW-01/2017-18/YP-CB5a

Date: 02-01-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

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Dimensions of Specimen : 150 X 150 X 150mm

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TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-12-17	02-01-18	28	22500	610	27.11	**27.63**
	002	"	"	"	"	635	28.22	
	003	"	"	"	"	620	27.56	

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